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**Inhibition of Human Melanoma C8161 Colony Forming Ability  
by 12 Different Antisense ODNs**

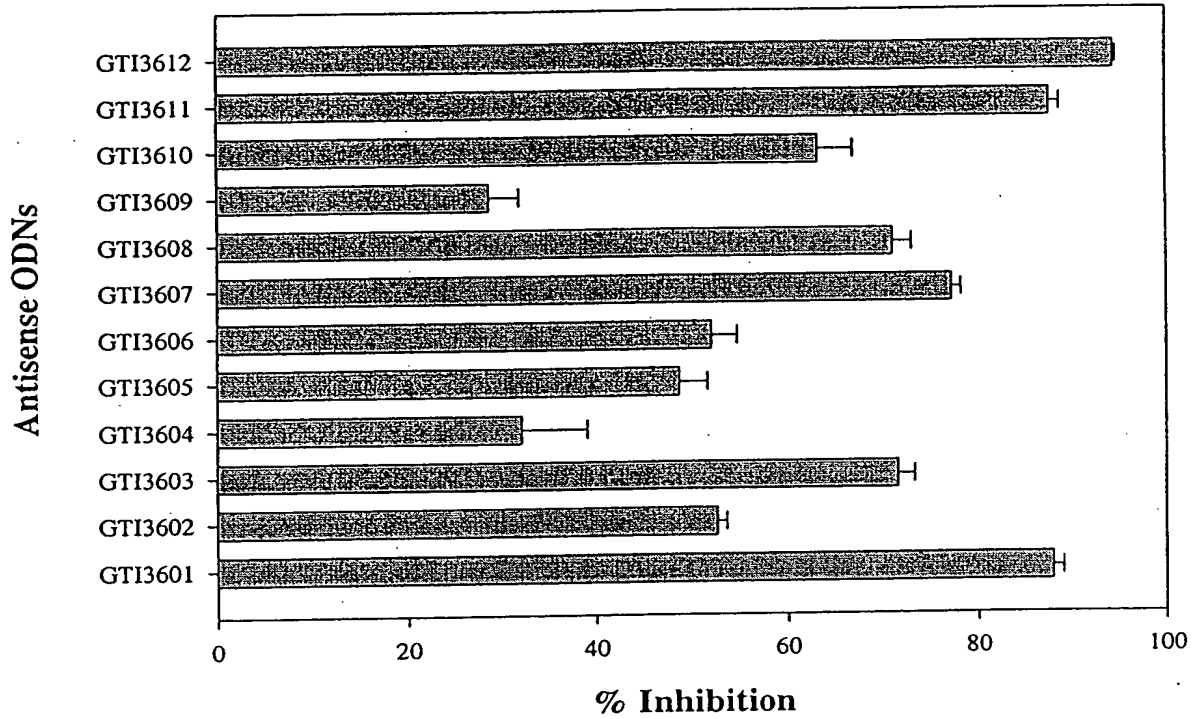


FIG. 1A



APPLICANT(S): Wright et al.  
TITLE: NEUROPILIN ANTISENSE OLIGONUCLEOTIDE  
SEQUENCES AND METHODS OF USING SAME TO  
MODULATE CELL GROWTH  
Application No.: 09/296,264 Filing Date: April 22, 1999  
Docket No.: MBM1250-2

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**Inhibition of Human Lung Cancer A549 Colony Forming Ability  
by 12 Different Antisense ODNs**

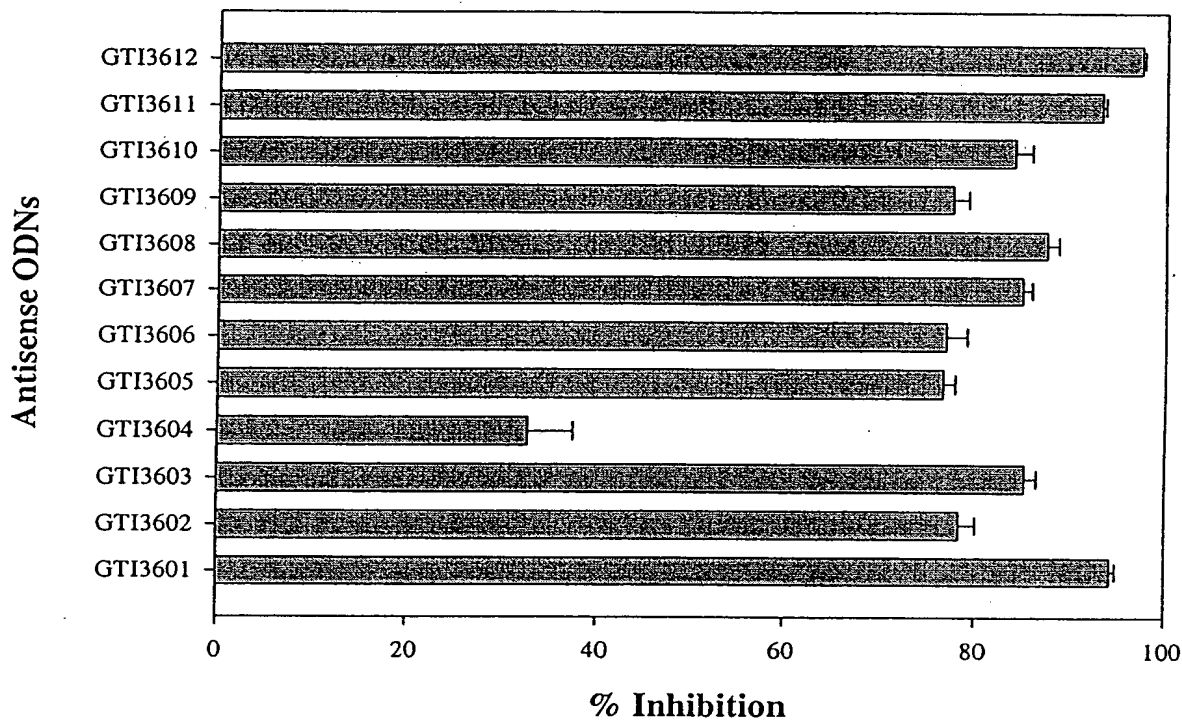


FIG. 1B



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Inhibition of Human melanoma A2058 Colony Forming Ability  
by 12 Different Antisense ODNs

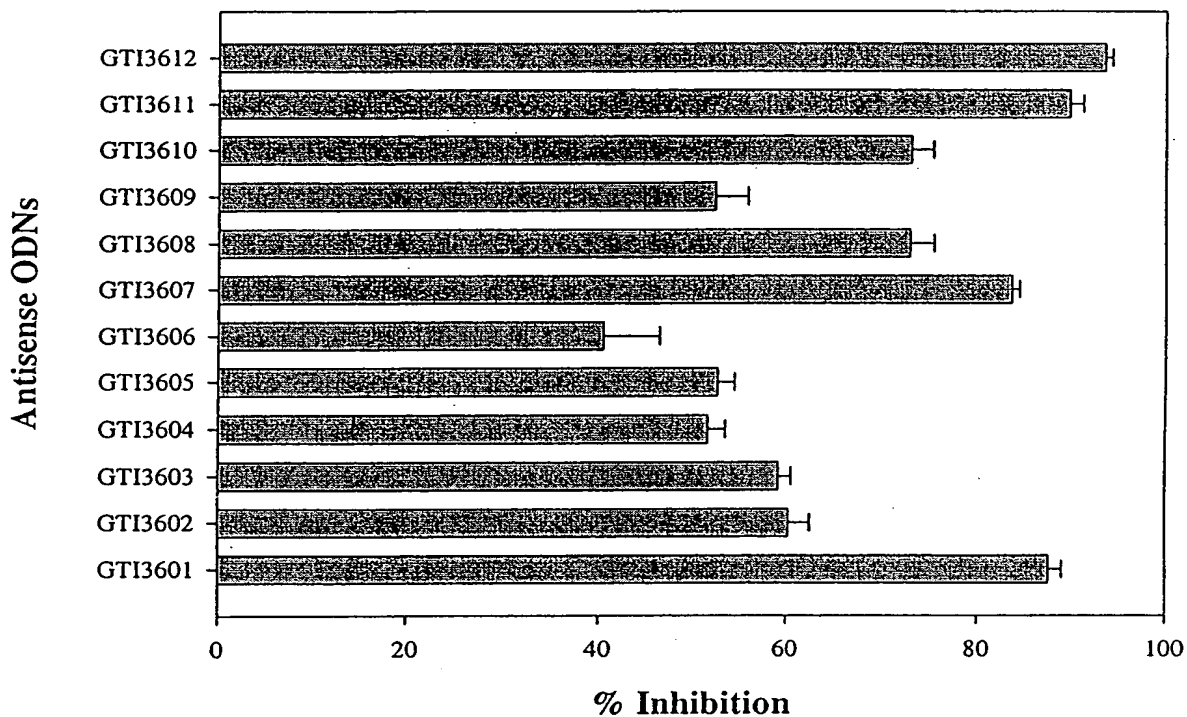


FIG. 1C



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**Inhibition of Human Colon Cancer HT-29 Colony Forming Ability  
by 12 Different Antisense ODNs**

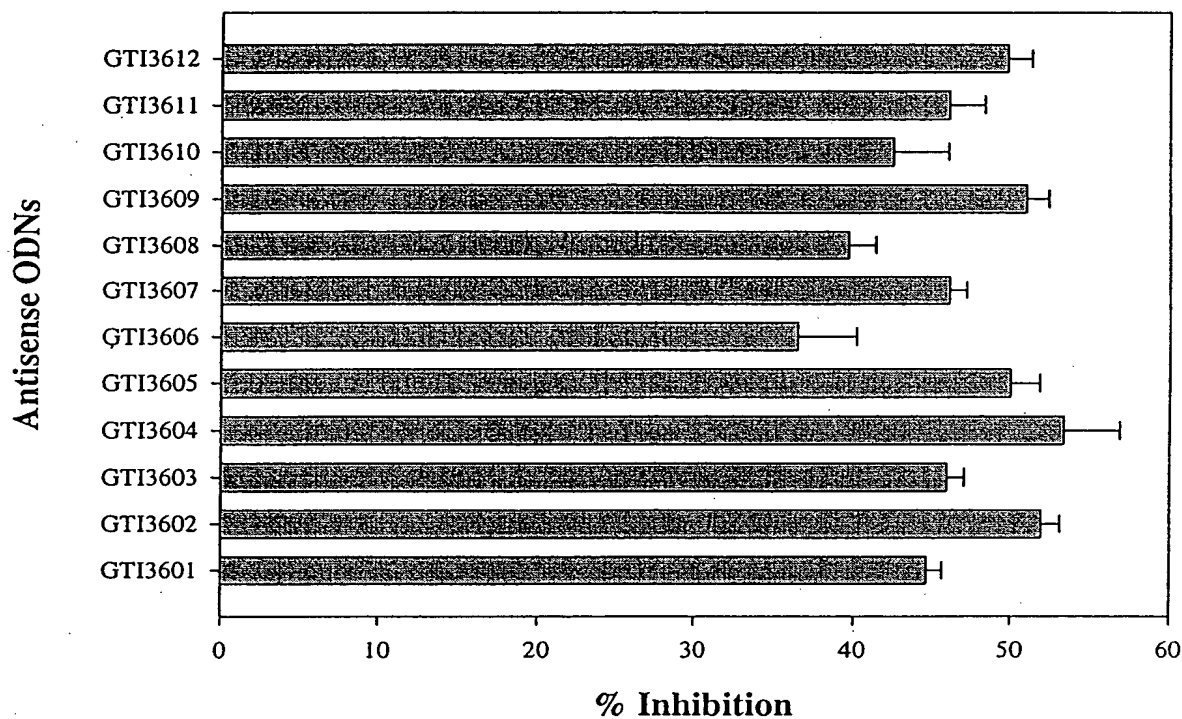


FIG. 1D



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**Inhibition of Human Prostate Cancer PC-3 Colony Forming Ability  
by 12 Different Antisense ODNs**

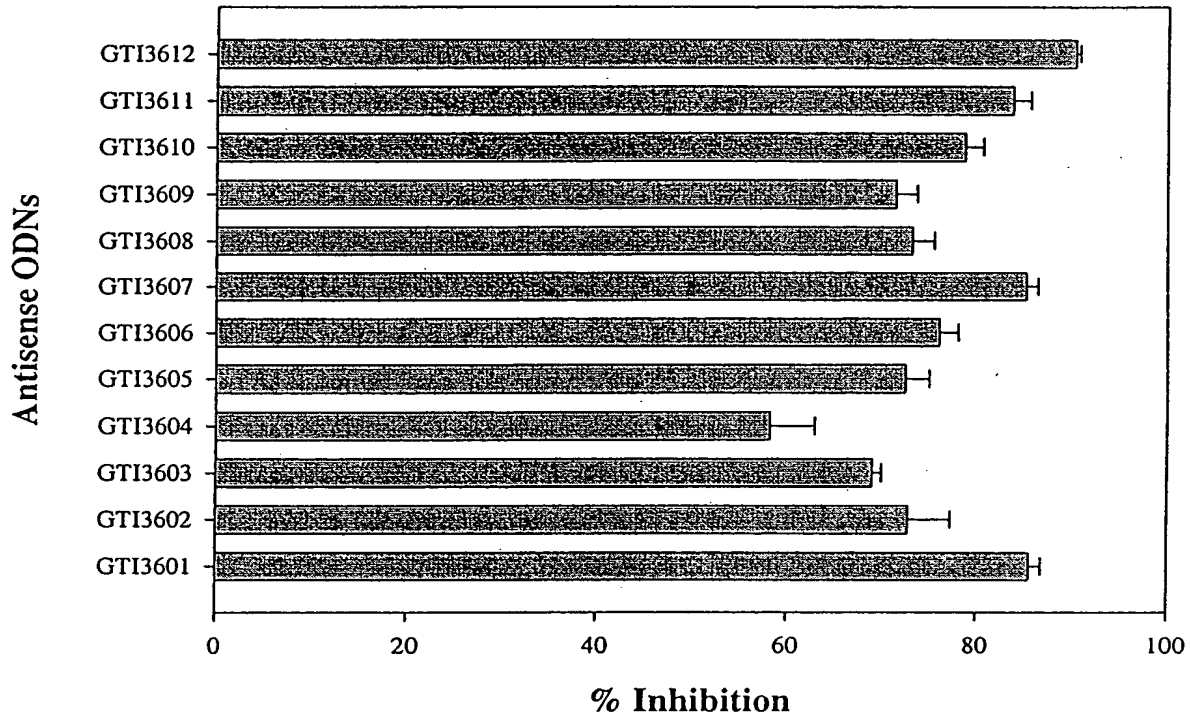


FIG. 1E



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**Inhibition of Human Pancreatic Cancer AsPC-1 Colony Forming Ability  
by 12 Different Antisense ODNs**

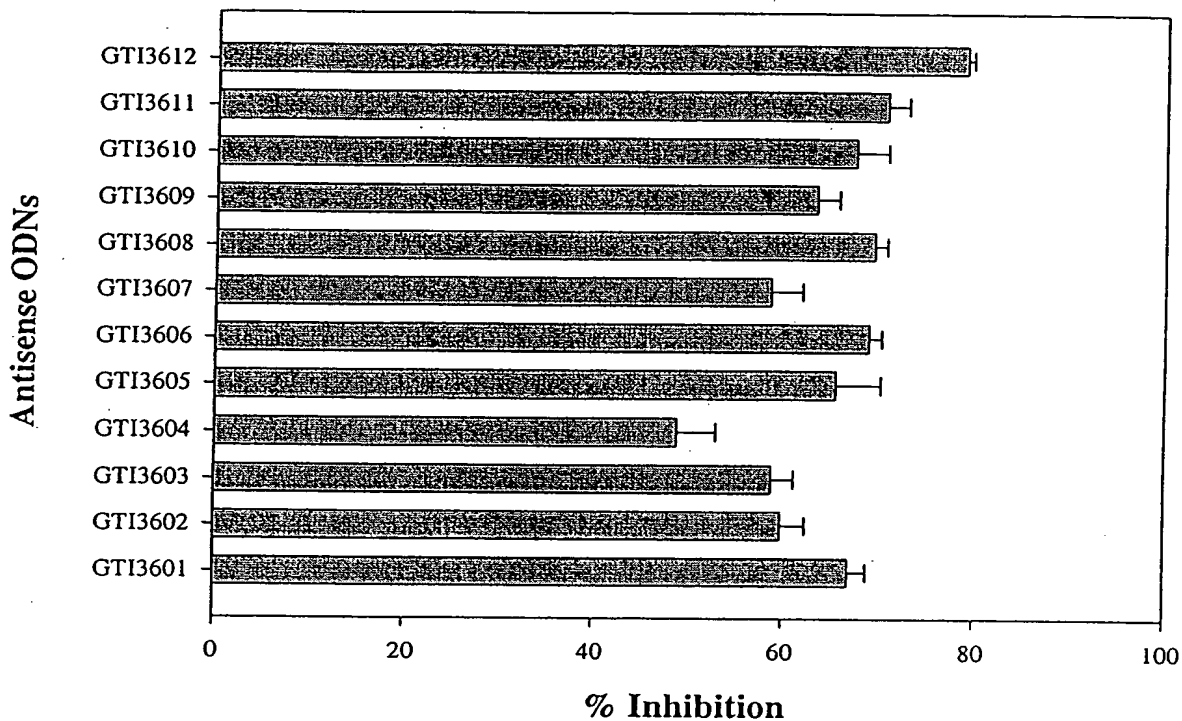


FIG. 1F



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## Examples of Decreased mRNA Levels following Treatment with Antisense ODNs

### Breast Cancer Cells (MDA-MB-231)

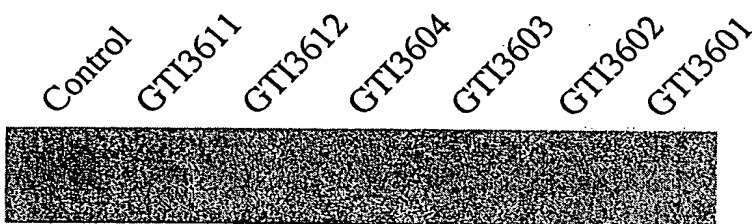


FIG. 2A

### Melanoma Cells (A2058)

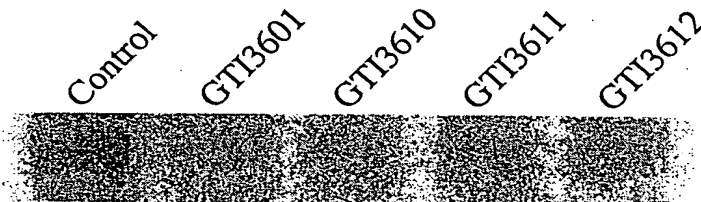


FIG. 2B



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### Effects of GTI3602 Antisense ODN treatment on Human Tumor Growth in Mice

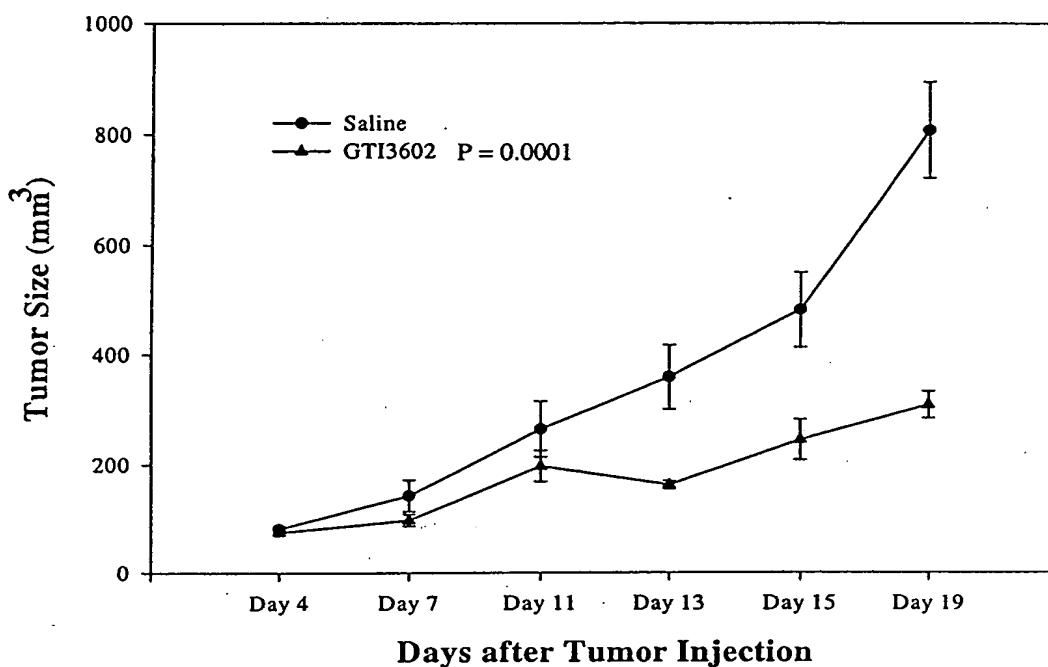


FIG. 3A

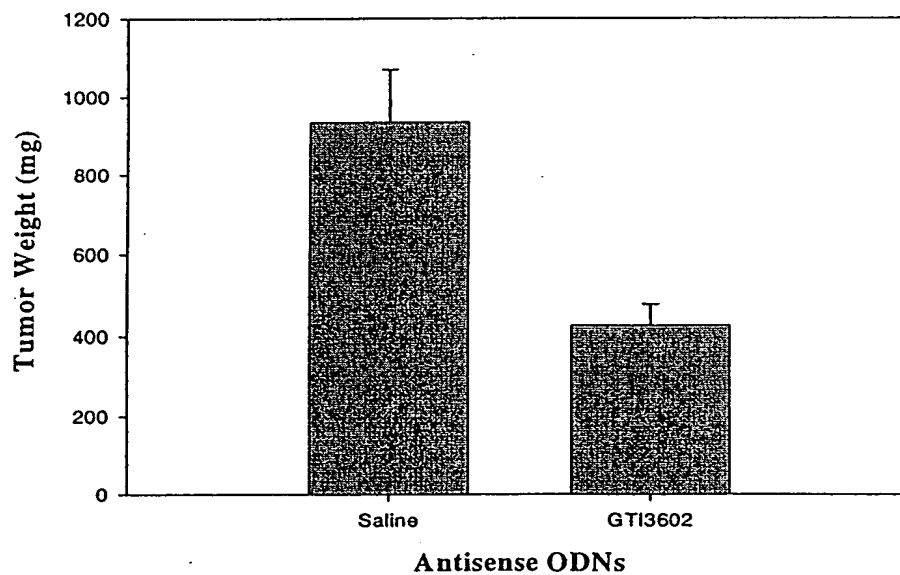


FIG. 3B





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## Reduction of Tumor Metastases

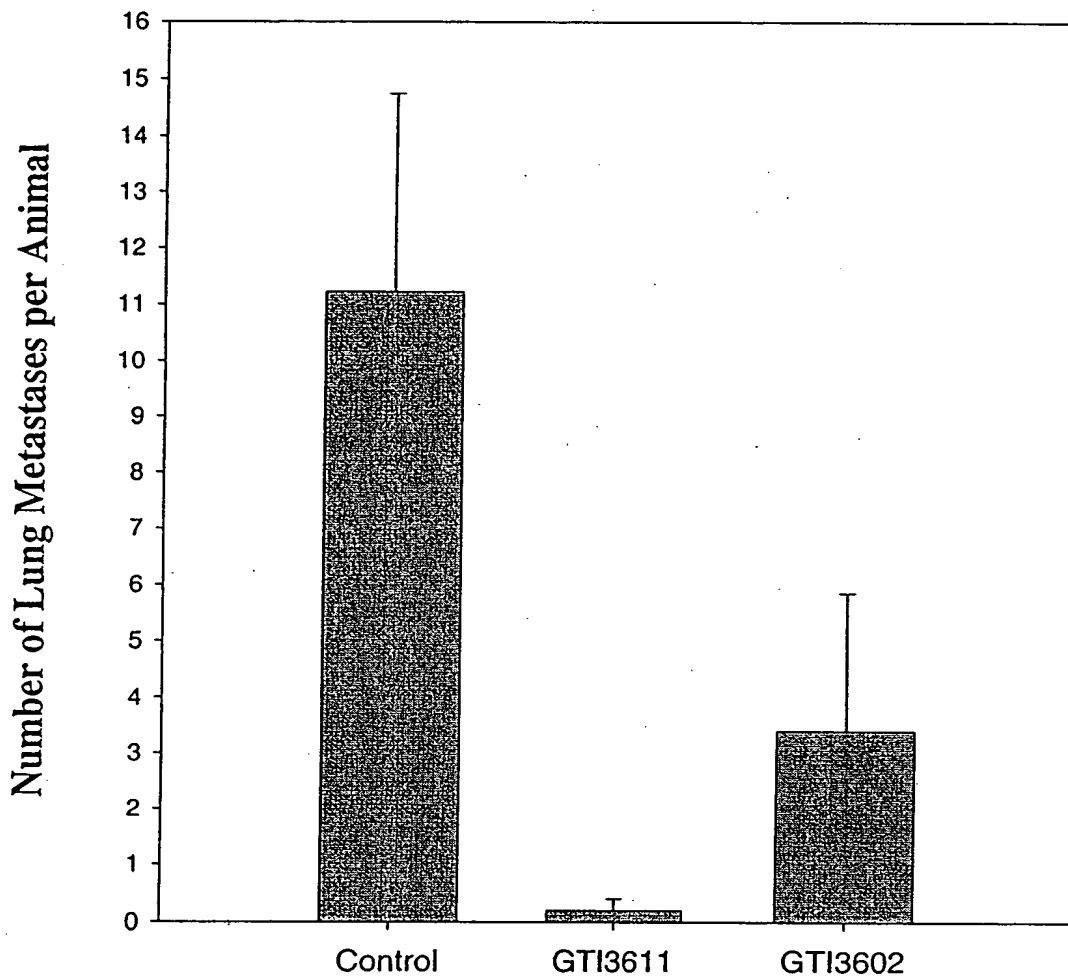


FIG. 4



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ATGAGAGGG GGCTGCCGCT CCTCTGCGCC GTGCTCGCCC TCGTCTCTCGC CCGGCCGCGC  
GCTTTTCGCA ACGATGAATG TGGCGATACT ATAAAAATG AAAGCCCGG GTACCTTACA  
TCTCCTGGTT ATCCTCAATC TTATCACCCA AGTGAAAAAT GCGAATGGCT GATTCAGGCT  
CCGGACCCAT ACCAGAGAAT TATGATCAAC TTCAACCCCTC ACTTCGATTT GGAGGACAGA  
GACTGCAAGT ATGACTACGT GGAAGTCTTC GATGGAGAA ATGAAATGG ACATTTTAGG  
GGAAGTTCT GTGGAAGAT AGCCCTCCT CCTGTTGTGT CTTCAGGGCC ATTCTTTTT  
ATCAAAATTTG TCTCTGACTA CGAAACACAT GGTGCAAGAT TTCCATACG TTATGAAATT  
TTCAAGAGAG GTCCTGAATG TTCCAGAAC TACACACAC CTAATGGAGT GATAAAGTCC  
CCCGGATTCC CTGAAAAATA TCCCAACAGC CTTGAATGCA CTTATATTGT CTTTGGCGCA  
AAGATGTCAG AGATTATCCT GGAATTGAA AGCTTTGACC TGGAGCCTGA CTCAAATCCT  
CCAGGGGGA TGTTCGTCTG CTACGACCG CTAGAAATCT GGGATGGATT CCCTGATGTT  
GGCCCTCACA TTGGGCGTTA CTGTGGACAG AAAACACAG GTCGAATCCG ATCCTCATCG  
GGCATTCTCT CCATGGTTT TACACCGAC AGCGGATAG CAAAGAAGG TTTCTCAGCA  
AACTACAGTG TCTTGCAGAG CAGTGTCTCA GAAGATTTC AATGTATGA AGCTCTGGGC  
ATGGAATCAG GAGAAATTCA TTCTGACCAG ATCAGAGCTT CTTCCAGTA TAGCACCAAC  
TGGTCTGCAG AGCGTCCCG CCTGAACAC CCTGAGATG GGTGGACTCC CGGAGAGGAT  
TCCTACCGAG AGTGGATACA GGTAGACTTG GGCCTTCTGC GCTTGTCTC GGTGTCTGGG  
ACACAGGGCG CCATTTCAAA AGAAACCAAG AAGAAATATT ATGTCAAGAC TTACAAGATC

FIG. 5-1



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1140 GACGTTAGCT CCAACGGGGA AGACTGGATC ACCATAAAG AAGGAACAA ACCTGTTCTC  
1200 TTTACGGGAA ACACCAACCC CACAGATGTT GTGGTTGCAG TATTCGCCAA ACCACTGATA  
1260 ACTCGATTG TCCGAATCAA GCCTGCAACT TGGGAAACTG GCATATCTAT GAGATTGAA  
1320 GTATACGGTT GCAAGATAAC AGATTATCCT TGCTCTGGA TGTGGGTAT GGTGTCGGA  
1380 CTTATTTCTG ACTCCAGAT CACATCATCC AACCAGGAG ACAGAAACTG GATGCCCTGAA  
1440 AACATCCGCC TGGTAACCAAG TCGCTCTGGC TGGCACTTC CACCCGCACC TCATTCCCTAC  
1500 ATCAATGAGT GGCTCCAAAT AGACCTGGG GAGGAGAAGA TCGTGAGGG CATCATCAT  
1560 CAGGTGGGA AGCACCGAGA GAACAAAGGTG TTCAATGAGGA AGTTCAAGAT CGGGTACAGC  
1620 AACAAACGGCT CGGACTGGAA GATGATCATG GATGACAGCA AAGGCAAGGC GAAGTCTTTT  
1680 GAGGGCAACA ACAACTATGA TACACCTGAG CTGCGGACTT TTCCAGCTCT CTCCACGCCA  
1740 TTCAATCAGGA TCTACCCCGA GAGAGCCACT CATGGCGGAC TGGGGCTCAG AATGGAGCTG  
1800 CTGGGCTGTG AAGTGAAGC CCTACAGCT GGACCGACCA CTCCCAACGG GAACCTTGGTG  
1860 GATGAATGTG ATGACGACCA GGCCAACTGC CACAGTGGAA CAGGTGATGA CTTCCAGCTC  
1920 ACAGGTGGCA CCACTGTGCT GGCCACAGAA AAGCCACGG TCATAGACAG CACCATACAA  
1980 TCAGAGTTTC CAACATATGG TTTTAACTGT GAATTTGGCT GGGGCTCTCA CAAGACCTTC  
2040 TGCCACTGGG AACATGACAA TCACGTGCGAG CTCGAAGTGA GTGTGTTGAC CAGCAAGACG  
2100 GGACCCATTC AGGATCACAC AGGAGATGGC AACTTCATCT ATTCCCAAGC TGACGAAAT  
2160 CAGAAGGGCA AAGTGGCTCG CCTGGTGAGC CCTGTGGTTT ATTCCAGAA CTCGCCCCAC  
2220 TGCAATGACCT TCTGGTATCA CATGTCTGGG TCCCACGTCG GCACACTCAG GGTCAAACTG  
2280 CGCTACCAGA AGCCAGAGGA GTACGATCAG CTGGTCTGGA TGGCCATTGG ACACCAAGGT  
2340 GACCACTGGA AGGAAGGGCG TGTCTTGCTC CACAAGTCTC TGAAACTTTA TCAGGTGATT  
2400 TTCGAGGGCG AATCGGAAA AGGAAACCTT GGTGGGATTG CTGTGGATGA CATTAGTATT  
2460 AATAACCA CA TTTCACAAGA AGATTGTGCA AACCAGCAG ACCTGGATAA AAGAAACCCA  
2520 GAAATTAAA TTGATGAAAC AGGGAGCAGC CCAGGATACG AAGTGAAGG AGAAGGTGAC  
2580 AAGAACATCT CCAGGAAGCC AGGCAATGTG TTGAAGACCT TAGAACCCAT CCTCATCACC  
2640 ATCATAGCCA TGAGCGCCCT GGGGGTCTC CTGGGGCTG TCTGTGGGGT CGTGCTGTAC  
2700 TGTGCCCTGT GGCATAATGG GATGTCAGAA AGAACTTGT CTGCCCTGGA GAACATAAAC  
2760 TTTGAACCTG TGGATGGTGT GAAATTGAAA AAGACAAAC TGAATACACA GAGTACTTAT  
2772 TCGGAGGCAT GA

FIG. 5-2



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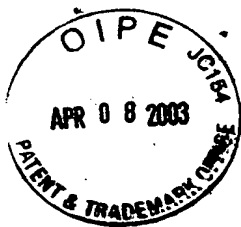
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ATGAGAGGG GCGTCCGGTT GCTGTGGCC ACGCTCGCCC TTGCCCTCGC CCTGGGGGCT  
TTCCGCAGCG ATAAATGTGG CGGGACTATA AAAATTGAAA ACCCGGGTA CCTTACATCT  
CCCGGCTACC CTCATTCTTA CCATCCAAGT GAGAAATGTG AATGGCTAAT CCAAGCTCCG  
GAGCCCTACC AGAGRATCAT GATCAACTTC AACCCACATT TCGATTGGA GGACAGAGAC  
TGCAAGTATG ACTATGTGA AGTGATCGAT GGAGAGAATG AAGGTGGCCG CCTGTGGGGG  
AAGTTCTGTG GGAAGATCGC ACCTTCACCT GTGGTGTCTT CAGGGCCATT TCTCTTCATC  
AAATTTGTCT CTGACTATGA GACCCACGGG GCAGGATTTT CCATCCGCTA TGAATCTTTC  
AAGAGAGGGC CCGAATGTTT TCAGAACTAT ACAGCACCTA CTGGAGTGAT AAAGTCCCTT  
GGGTTCCCTG AAAAATACCC CAACAGCTTG GAGTGCACCT ACATCATCTT TGCACCAAAG  
ATGTCTGAGA TAATCCTAGA GTTTGAAAGT TTTGACCTGG AGCAAGACTC AAATCCTCCC  
GGAGGAATGT TCTGTGCGCTA TGACCGGCTG GAGATCTGGG ATGGATTCCC TGAAGTTGGC  
CCTCACATTG GCGTTACTG TGGGCAGAAA ACTCCTGGCC GGATCCGCTC CTCCTTCAGGC  
ATTCTATCCA TGGTCTTCTA CACTGACAGC GCAATAGCAA AGGAAGGTTT CTCAGCCAAC  
TACAGCGTGC TGCAGAGCAG CATCTCTGAA GATTTCAAGT GTATGGAGGC TCTGGGCATG  
GAATCTGGAG AGATCCATTG TGACCCAGATC ACTGCATCTT CCCAGTATGG TACCAACTGG  
TCTGTTGAGC GCTCCCGCCT GAACTACCTT GAAAACGGGT GGACACCCAGG AGAGGACTCC  
TACAGGGAGT GGATCCAGGT GGACTTGGC CTCCTGCGAT TCGTTACTGC TGTGGGGACA  
CAGGGTGCCA TTTCCAAGGA AACCAAGAAG AAATATTATG TCAAGACTTA CAGAGTAGAC  
ATCAGCTCCA ACGGAGAGGA CTGGATCACC CTGAAGGAGG GAAATRAAGC CATTTATCTT  
CAGGGAACA CCAATCCCAC GGATGTTGTC TTTGGAGTTT TCCCAAACC ACTGATAACT  
CGATTTGTCC GAATCAAACC TGCATCCTGG GAAACTGGAA TATCTATGAG ATTTGAAAGT  
TATGGCTGCA AGATAACAGA TTACCCCTGC TCTGGAATGT TGGGCATGGT GTCTGGACTT  
ATTTGAGACT CCCAGATTAC AGCATCCAAC CAAGGAGACA GGAACCTGGAT GCCAGAAAAC  
ATCCGCCCTG TGACCCAGTCG AACCGGCTGG GCCCTGCCAC CCTCACCCCA CCCATACATC  
AATGAATGGC TCCAAGTGA CCTGGGAGAT GAGAAGATAG TAAGAGGTGT CATCATTTCAA  
GGTGGGAAGC ACCGAGAAA CAAAGTGTTT ATGAGGAAGT TCAAGATCGC CTACAGTAAC  
AATGTTCTG ACTGGAAAAAT GATCATGGAT GACAGCAAGC GCAAGGCTAA GTCTTTTGAA  
GGCAACAACA ACTATGACAC ACCTGAGCTC CGGGCCTTTA CACCTCTCTC CACAAGATTC

FIG. 6-1



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1740	ATCAGGATCT	ACCCCGAGAG	AGCCACACAT	AGTGGGCTCG	GACTGAGGAT	GGAGCTACTG
1800	GGCTGTGAAG	TAGAAGTGCC	TACAGCTGGA	CCCACGACAC	CCAATGGGAA	CCCCGTGGAC
1860	GAGTGTGACG	ATGACCAAGG	CAACTGCCAC	AGTGGCACAG	GTGATGACTT	CCAGCTCACA
1920	GGAGGCACCA	CTGTCTCTGG	CACAGAGAAAG	CCCACCATTA	TAGACAGCAC	CATCCAATCA
1980	GAGTTCCCGA	CATACGGTTT	TAACTGCGAG	TTTGGCTGGG	GCTCTCACAA	GACATTCTGC
2040	CACTGGGAAC	ATGACAGCCA	CGCGCAGCTC	AGGTGGAGGG	TGCTGACCAG	CAAGACGGGG
2100	CCCATTGAGG	ACCACACAGG	AGATGGCAAC	TTCATCTATT	CCCAAGCTGA	TGAAAATCAG
2160	AAAGGCAAG	TAGCCCGCCT	GGTGAGCCCT	GTGGTCTATT	CCGAGAGTTC	TGCCCACTGC
2220	ATGACCTTCT	GGTATCACAT	GTCCGGCTCT	CATGTGGGTA	CACTGAGGGT	CAAACTGCAC
2280	TACCAGAAAG	CAGAGGAATA	TGATCAACTG	GTCTGGATGG	TGGTCGGGCA	CCAAGGAGAC
2340	CACTGGAAGG	AAGGGCGTGT	CTTGCTGCAC	AAATCTCTGA	AACTGTATCA	GGTTATTTT
2400	GAAGGTGAAA	TCGGAAAAGG	AAACCTCGGT	GGGATTGCTG	TGGATGATAT	CAGTATTAAAC
2460	AACCACATTC	CTCAGGAGGA	CTGTGCAAAA	CCAACAGACC	TAGATAAAAA	GAACACAGAA
2520	ATTAAATAAG	ATGAAACAGG	GAGCACCCCA	GGATATGAAG	AAGGGAAGG	CGACAAGAAC
2580	ATCTCCAGGA	AGCCAGGCCAA	TGTGCTTAAG	ACCCTGGACC	CCATCCTGAT	CACCATCATA
2640	GCCATGAGTG	CCCTGGGGGT	GCTCCTGGGT	GCAGTCTGTG	GAGTTGTGCT	GTACTGTGCC
2700	TGTTGGCACA	ATGGGATGTC	GGAAAGGAAC	CTATCTGCCC	TGGAGAACTA	TAACTTTGAA
2760	CTTGTGGATG	GTGTAAAGTT	GAATAAAGAT	AACTGAAACC	CACACAGTAA	TTACTCAGAG
2766	GGGTGA					

FIG. 6-2





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1800 TGACCAGTCG TACCGGCTGG GCACTGCCAC CCTCACCCCA CCCATACACC AATGAATGGC  
1860 TCCAAGTGGA CCTGGGAGAT GAGAAGATAG TAAGAGGTGT CATCATTCAG GGTGGGAAGC  
1920 ACCGAGAAAA CAAGGTGTTT ATGAGGAAGT TCAAGATCGC CTATAGTAAC AATGGCTCTG  
1980 ACTGGAAAAAC TATCATGGAT GACAGCAAGC GCAAGGCTAA GTCGTTTCGAA GGCAACARCA  
2040 ACTATGACAC ACCTGAGCTT CGGACGTTT GCTCTCTCTC CACAAGGTTT ATCAGGATCT  
2100 ACCCTGAGAG AGCCACACAC AGTGGGCTTG GGCTGAGGAT GGAGCTACTG GGCTGTGAAG  
2340 CATACGGTTT TAACTGCGAG TTGGCTGGG GCTCTCACAA GACATTTCTGC CACTGGGAGC  
2400 ATGACAGCCA TGCACAGCTC AGGTGGAGTG TGCTGACCAG CAAGACAGGG CCGATTCAGG  
2460 ACCATACAGG AGATGGCAAC TTCTATCTATT CCCAAGCTGA TGAAAATCAG AAAGGCAAAAG  
2520 TAGCCCGCCT GGTGAGCCCT GTGGTCTATT CCCAGAGCTC TGCCCACTGT ATGACCTTCT  
2580 GGTATCACAT GTCCGGCTCT CATGTGGGTA CACTGAGGGT CAAACTACGC TACCAGAAGC  
2640 CAGAGGAATA TGATCAACTG GTCTGGATGG TGTTGGGCA CCAAGGAGAC CACTGGGAAG  
2700 AAGGACGTGT CTTGCTGCAC AAATCTCTGA AACTATATCA GGTATTTTT GAAGGTGAAA  
2760 TCGGAAAAAGG AAACCTTGGT GGAATTGCTG TGGATGATAT CAGTATTAAC AACCATATTT  
2820 CTCAGGAAGA CTGTGCAAAA CCAACAGACC TAGATAAAAA GAACACAGAA ATTAAAAATTG  
2880 ATGAAACAGG GAGCACTCCA GGATATGAAG GAGAAGGGGA AGGTGACAAG AACATCTCCA  
2940 GGAAGCCAGG CAATGTGCTT AAGACCCCTG ATCCCATCTT GCTGTACTGT GCCTGTGTGGC  
3000 GTGCCCTGGG AGTACTCCTG GGTGCAGTCT GTGGAGTTGT GCTGTACTGT GCCTGTGTGGC  
3060 ACAATGGGAT GTCAGAAAGG AACCTATCTG CCTTGGAGAA CTATAACTTT GAACCTGTGG  
3120 ATGGTGTAAG GTTGAAAAAA GATAAACTGA ACCCACAGAG TAATTACTCA GAGGCGTGAA  
3180 GGCACGGAGC TGGAGGGAAC AAGGGAGGAG CACGGCAGGA GAACAGGTGG AGGCATGGGG  
3240 ACTCTGTTAC TCTGCTTTCA CTGTAAGCTG GGAAGGGCGG GGACTCTGTT ACTCCGCTTT  
3300 CACTGTAAGC TCGGAAGGC ATCCACGATG CCATGCCAGG CTTTTCTCAG GAGCTTCAAT  
3360 GAGCGTCACC TACAGACACA AGCAGGTGAC TGCGGTAACA ACAGGAATCA TGTACAAGCC  
3420 TGCTTTCTTC TCTTGGTTTC ATTTGGGTAA TCAGAAAGCCA TTGAGACCA AGTGTGACTG  
3480 ACTTCATGGT TCATCCTACT AGCCCCCTTT TTTCTCTCT TTTCTCCTTAC CCTGTGGTGG  
3540 ATTCTTCTCG GAACTGCAA AATCCAAGAT GCTGGCACTA GCGTTATTC AGTGGGCCCT  
3600 TTTGATGGAC ATGTGACCTG TAGCCCAAGT CCCAGAGCAT ATTATCATAA CCACATTTCA  
3652 GGGGACGCCA ACGTCCATCC ACCTTTGCAT CGCTACCTGC AGCGAGCACA GG

FIG. 7-2